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(62) Document number(s) of the earlier application(s) in  
accordance with Art. 76 EPC:  
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(54) **Cell surface molecule mediating cell adhesion and signal transmission**

(57) Novel cell surface molecules recognized by monoclonal antibodies against a cell surface molecule of lymphocytic cells that play an important role in autoimmune diseases and allergic diseases have been isolated, identified, and analyzed for their functions. The cell surface molecules are expressed specifically in thy-

mocytes, lymphocytes activated by ConA-stimulation, and peripheral blood lymphocytes, and induce cell adhesion. Antibodies against the cell surface molecules significantly ameliorate pathological conditions of autoimmune diseases and allergic diseases.



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## EUROPEAN SEARCH REPORT

Application Number  
EP 04 02 2364

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	REDOGLIA V ET AL: "Characterization of H4: a mouse T lymphocyte activation molecule functionally associated with the CD3/Tcell receptor" EUR J IMMUNOL, vol. 26, 1996, pages 2781-2789, XP001013533 * abstract * * page 2783, right-hand column, paragraph 1 *	1-25	C07K14/705 C07K16/28 C07K9/00 C12N5/10 C12N15/12 C12P21/08 A01K67/027 A61K38/17 A61K39/395
E	WO 99/15553 A (KROCZEK RICHARD ;BUNDESREPUBLIK DEUTSCHLAND LET (DE)) 1 April 1999 (1999-04-01) * the whole document *	8-12,21, 22	
A	SHARPE AH: "Analysis of lymphocyte costimulation in vivo using transgenic and 'knockout' mice" CURR OPIN IMMUNOL, vol. 7, no. 3, 1995, pages 389-395, XP001021014 * abstract * * page 391, left-hand column, paragraph 2 - page 393, left-hand column, paragraph 3 *  ----- -/--	13-17, 24,25	TECHNICAL FIELDS SEARCHED (Int.Cl.7)  C07K
The present search report has been drawn up for all claims			
Place of search <b>Munich</b>		Date of completion of the search <b>13 December 2004</b>	Examiner <b>Sommer, B</b>
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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Application Number  
EP 04 02 2364

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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 13 December 2004	Examiner Sommer, B
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

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# EUROPEAN SEARCH REPORT

Application Number  
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T	TAMATANI T ET AL: "AILIM/ICOS: a novel lymphocyte adhesion molecule" INTERNATIONAL IMMUNOLOGY, ISSN: 0953-8178., vol. 12, no. 1, January 2000 (2000-01), pages 51-55, XP001007236 * the whole document *	1-17, 19-27	
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 13 December 2004	Examiner Sommer, B
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**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 04 02 2364

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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13-12-2004

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